

Amendments to the Claims

Please amend the pending claims as follows:

1. (currently amended) An X-ray imaging apparatus comprising:
X-ray production means for producing ~~arranged to produce~~ X-rays from a plurality of sources positions, ~~spaced around an object location,~~ wherein the sources are and spaced from each other by a source spacing;[[,]]
a plurality of X-ray sensors ~~arranged to be spaced around the object position so as to~~ detect X-rays emitted from the sources positions and passing through an object ~~the object position~~;[[,]] and
control means for controlling ~~arranged to control~~ the order in which the sources positions are active such that the average smallest displacement between an active source ~~position~~ in one emission period and an active source ~~position~~ in the subsequent period is greater than the source spacing.
2. (currently amended) The imaging apparatus of Apparatus ~~according to claim 1~~ wherein said average smallest displacement is at least twice the source spacing.
3. (currently amended) The imaging apparatus of Apparatus ~~according to claim 1 or claim 2~~ wherein an ~~the~~ control means is arranged such that no active source position in any one emission period is not adjacent a source position active in the next emission period.
4. (currently amended) The imaging apparatus of claim 1 ~~Apparatus according to any foregoing claim~~ wherein the control means is arranged so that in each emission period only one source position is active in each emission period.
5. (currently amended) The imaging apparatus of claim 1 ~~Apparatus according to any of claims 1 to 3~~ wherein the control means is arrange such that in each emission period a plurality of source positions are active simultaneously in each emission period.
6. (currently amended) The imaging apparatus of claim 5 ~~Apparatus according to claim 5~~ wherein each of the source positions ~~is arranged to produces~~ X-rays for detection ~~which will be detected by [[a]]~~ at least one corresponding group of sensors, wherein during each emission period, the group of sensors are not overlapping ~~and the control means~~

~~is arranged such that in each emission period, the there is no overlap between the groups of sensors for said plurality of source positions.~~

7. (currently amended) The imaging apparatus of claim 6
~~Apparatus according to claim 5 or claim 6~~ wherein in each emission period at least half of the sensors are arranged to receive X-rays from the active source positions.
8. (currently amended) The imaging apparatus of claim 7
~~Apparatus according to claim 7~~ wherein in each emission period substantially all of the sensors are arranged to receive X-rays from the active source positions.
9. (currently amended) The imaging apparatus of claim 1
wherein said source or plurality of sources is an X-ray tube ~~Apparatus according to any foregoing claim comprising a plurality of X-ray tubes each providing a plurality of said source positions.~~
10. (currently amended) The imaging apparatus of claim 9
~~Apparatus according to claim 9~~ wherein the control means is arranged such that in each emission period the active source position is in a different X-ray tube ~~from the active source position in the previous emission period.~~
11. (currently amended) The imaging apparatus of claim 10
~~Apparatus according to claim 10~~ wherein only one source position is active in each emission period and the active source positions are provided in each of the tubes sequentially in turn.
12. (currently amended) The imaging apparatus of claim 11
~~Apparatus according to any of claims 9 to 11~~ wherein, within each tube, the order in which the source positions are active is arranged such that in each emission period the active source position is non-adjacent to the source position active in the previous emission period.
13. (cancelled)

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'HA' followed by a stylized flourish.

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40,896